BRUHATH BANGALORE MAHANAGARA PALIKE
BYATARAYANAPURA DIVISION

Name of the work: Improvements to Drains of Pampa Extension in Ward No 07 Byatarayanapura

Second and Part Bill
Test Report

AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

TEJUS CONSULTANTS

Project	Improvements to Drains of Pampa Extension in Ward No 07 Byatarayanapura		
Client	BRUHAT BANGALORE MAHANAGARA PALIKE		
Consultant	M/s Tejus Consultants		
Contractor	Benaka Developers & Project Pvt.Ltd.		
Proposed Use	WMM	**Date of Sampling**	**23.04.2019**
Sample Location	**At plant**	**Date of Testing**	**23.04.2019**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	354.00	349.00	353.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	274.00	273.00	271.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	80.00	76.00	82.00	
4	Aggregate Impact Value (%)	(Wc/Wa)* 100	22.60	21.78	23.23	
5	Average Aggregate impact value	(%)	22.53			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

Note:

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Authorised Signatory

A.E (Lab)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

TEJUS
CONSULTANTS

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Project	Improvements to Drains of Pampa Extension in Ward No 07 Byatarayanapura
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	M/s Tejus Consultants
Contractor	Benaka Developers & Project Pvt.Ltd.

Type of Material	WMM	**Proposed Use**	WMM
Sample Location	At plant	**Date of Sampling**	23.04.2019
		Date of Testing	23.04.2019

Size of aggregate		Flakiness Index		Elongation Index	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	858	78	780	50
16.0	12.5	1200	117	1083	120
12.5	10.0	451	76	375	62
10.0	6.3	500	65	435	38
Total		**3009**	**336**	**2673**	**270**

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	11.17
Elongation Index(%):	10.10
Combined FI+EL (%)	21.27

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Authorised Signatory

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

TEJUS
CONSULTANTS

GRADATION FOR WMM
(As per MORT&H 400-11)

Name of Work	:	Improvements to Drains of Pampa Extension in Ward No 07 Byatarayanapura
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Benaka Developers & Project Pvt.Ltd.
Date of Testing	:	23.04.2019
Type of Mix	:	WMM
Sample I/D	:	WMM 1

Sample Location:	At plant	**Date of Sampling:**	23.04.2019
Type of material & Purpose:	WMM	**Date of testing:**	23.04.2019
		Oven Dry Wt.(gms):	10000.0

IS Sieve size in mm	Weight retained (gm)	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
53	0	0	0.00	100.00	100.00
45	618	618	6.18	93.82	95-100
22.4	2526	3144	31.44	68.56	60-80
11.2	1789	4933	49.33	50.67	40-60
4.75	1456	6389	63.89	36.11	25-40
2.36	1355	7744	77.44	22.56	15-30
0.6	869	8613	86.13	13.87	8.0-22.0
0.075	842	9455	94.55	5.45	0-8
Pan	545				
Total	10000				

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Authorised Signatory

AE(W2)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Project	**Improvements to Drains of Pampa Extension in Ward No 07 Byatarayanapura**		
Client	**BRUHAT BANGALORE MAHANAGARA PALIKE**		
Consultant	**M/s Tejus Consultants**		
Contractor	**Benaka Developers and Project Pvt. Ltd.**		
Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)			
Date of Testing	**24.04.2019**		
Layer no. or level	WMM I layer		
Depth of hole	250mm		
Field density:	**1**	**2**	**3**
Wt. of wet material from hole (Ww) gms.	6165	6115	6200
Wt. of sand+cylinder before pouring (w1) gms.	14000	14000	14000
Wt. of sand+cylinder after pouring (w2) gms.	9736	9732	9715
Wt. of sand in cone (w3) gms.	835	842	830
Wt. of sand in hole (w4)=(w1-w2-w3) gms.	3429	3426	3455
Bulk density of sand (γs)gm/cc	1.31	1.32	1.31
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.36	2.36	2.35
Moisture meter reading(moisture content)	12.45	12.56	12.57
Result			
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.09	2.09	2.09
MDD	2.13	2.13	2.13
OMC	12.60%	12.60%	12.60%
% of Compaction Obtained	98.33	98.27	98.04
Compaction Required	98%	98%	98%

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Authorised Signatory

Assistant Executive Engineer

TEJUS
CONSULTANTS

AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

Project	Improvements to Drains of Pampa Extension in Ward No 07 Byatarayanapura		
Client	BRUHAT BANGALORE MAHANAGARA PALIKE		
Consultant	M/s Tejus Consultants		
Contractor	Benaka Developers & Project Pvt.Ltd.		
Proposed Use	BC	**Date of Sampling**	**24.04.2019**
Sample Location	At plant	**Date of Testing**	**24.04.2019**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	414.00	456.00	426.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	300.00	360.00	336.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	114.00	96.00	90.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	27.54	21.05	21.13	
5	Average Aggregate impact value	(%)	23.24			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

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Authorised Signatory

AE(Civil)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

GRADATION FOR BC
(As per MORT&H 500-18,Grading-2)

Name of Work	:	Improvements to Drains of Pampa Extension in Ward No 07 Byatarayanapura
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Benaka Developers & Project Pvt.Ltd.
Date of Testing	:	24.04.2019
Type of Mix	:	BC
Sample I/D	:	BC3

Sample Location:	At plant	Date of Sampling:	24.04.2019
Type of material & Purpose:	BC	Date of testing:	24.04.2019
		Oven Dry Wt.(gms):	1200.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	139	139.0	11.58	88.42	79 - 100
9.50	111	250.0	20.83	79.17	71 - 95
4.75	224	474.0	39.50	60.50	53 - 71
2.360	122	596.0	49.67	50.33	42 - 58
1.180	139	735.0	61.25	38.75	34 - 48
0.600	113	848.0	70.67	29.33	26 - 38
0.300	124	972.0	81.00	19.00	18 - 28
0.150	66	1038.0	86.50	13.50	12 - 20
0.075	100	1138.0	94.83	5.17	4 - 10
Pan	62.0				
Total	1200.0				

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M.N.D
AE(Rds)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Authorised Signatory

TEJUS
CONSULTANTS

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Project :	Improvements to Drains of Pampa Extension in Ward No 07 Byatarayanapura
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant :	M/s Tejus Consultants
Contractor:	Benaka Developers & Project Pvt.Ltd.

Type of Material	BC	**Proposed Use**	**BC**
Sample Location	At plant	**Date of Sampling**	**24.04.2019**
		Date of Testing	**24.04.2019**

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	626	72	554	65
16.0	12.5	1212	110	1102	85
12.5	10.0	510	70	440	60
10.0	6.3	500	50	450	50
Total		**2848**	**302**	**2546**	**260**

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.60	
Elongation Index(%):	10.21	
Combined FI+EL (%)	20.82	

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Authorised Signatory

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

TEJUS
CONSULTANTS

AGGREGATE IMPACT VALUE
(IS: 2386 Part - 4)

Project	Improvements to Drains of Pampa Extension in Ward No 07 Byatarayanapura		
Client	BRUHAT BANGALORE MAHANAGARA PALIKE		
Consultant	M/s Tejus Consultants		
Contractor	Benaka Developers & Project Pvt.Ltd.		
Proposed Use	BC	**Date of Sampling**	**25.04.2019**
Sample Location	At plant	**Date of Testing**	**25.04.2019**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	385.00	364.00	341.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	285.00	260.00	255.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	100.00	104.00	86.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	25.97	28.57	25.22	
5	Average Aggregate impact value	(%)	26.59			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

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TEJUS CONSULTANTS

Authorised Signatory

AE(WQ)

Assistant Executive Engineer
Koramangala Division
Bruhat Bangalore Mahanagara Palike
Bangalore

TEJUS
CONSULTANTS

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Project :	Improvements to Drains of Pampa Extension in Ward No 07 Byatarayanapura		
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE		
Consultant :	M/s Tejus Consultants		
Contractor:	Benaka Developers & Project Pvt.Ltd.		
Type of Material	BC	**Proposed Use**	**BC**
Sample Location	At plant	**Date of Sampling**	**25.04.2019**
		Date of Testing	**25.04.2019**

Size of aggregate		Flakiness Index		Elongation Index	
Passing through IS sieve, mm	Retained on IS sieve, mm	Total wt. of aggregate retained on sieves (A) gms.	Wt. of aggregate passing from Flakiness gauge (B) gms	Wt. of aggregate retained on Flakiness gauge (C) gms	Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	632	73	560	70
16.0	12.5	1225	112	1125	85
12.5	10.0	566	72	450	60
10.0	6.3	520	56	460	50
Total		**2943**	**313**	**2595**	**265**

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.64
Elongation Index(%):	10.21
Combined FI+EL (%)	20.85

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

GRADATION FOR BC
(As per MORT&H 500-18,Grading-2)

Name of Work	:	Improvements to Drains of Pampa Extension in Ward No 07 Byatarayanapura
Client	:	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant	:	M/s Tejus Consultants
Contractor	:	Benaka Developers & Project Pvt.Ltd.
Date of Testing	:	25.04.2019
Type of Mix	:	BC
Sample I/D	:	BC3

Sample Location:	At plant	Date of Sampling:	25.04.2019
Type of material & Purpose:	BC	Date of testing:	25.04.2019
		Oven Dry Wt.(gms):	1200.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	150	150.0	12.50	87.50	79 - 100
9.50	124	274.0	22.83	77.17	71 - 95
4.75	216	490.0	40.83	59.17	53 - 71
2.360	132	622.0	51.83	48.17	42 - 58
1.180	134	756.0	63.00	37.00	34 - 48
0.600	120	876.0	73.00	27.00	26 - 38
0.300	124	1000.0	83.33	16.67	18 - 28
0.150	80	1080.0	90.00	10.00	12 - 20
0.075	50	1130.0	94.17	5.83	4 - 10
Pan	70.0				
Total	1200.0				

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Authorised Signatory

Assistant Engineer
Koadgehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

Name of Work :	Improvements to Drains of Pampa Extension in Ward No 07 Byatarayanapura
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant :	M/s Tejus Consultants
Contractor :	Benaka Developers & Project Pvt.Ltd.
Date of Testing :	25.04.2019
Type of Mix :	BC
Sample I/D :	BC1

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	851	850
2. Weight of Mixture after extraction, g	807	806
3. Weight of Bitumen	44	44
4. Weight of filter paper before extraction, g	2.00	2.00
5. Weight of filter paper after extraction, g	4.00	4.00
6. Weight of fines, g	2.00	2.00
7. Weight of Bitumen & fines	46.00	46.00
8. Bitumen content in %	5.41	5.41
9. Average Bitumen content in %	**5.41**	
10. Minimum Bitumen content in %	**5.40**	

GRADATION FOR BC AFTER EXTRACTION
(As per MORT&H 500-18,Grading-2)

Sample Location:	At site	Date of Sampling:	25.04.2019
Type of material & Purpose:	**BC**	Date of testing:	25.04.2019
		Oven Dry Wt.(gms):	807.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	100	100.0	12.39	87.61	79 - 100
9.50	65	165.0	20.45	79.55	71 - 95
4.75	135	300.0	37.17	62.83	53 - 71
2.360	100	400.0	49.57	50.43	42 - 58
1.180	85	485.0	60.10	39.90	34 - 48
0.600	85	570.0	70.63	29.37	26 - 38
0.300	45	615.0	76.21	23.79	18 - 28
0.150	60	675.0	83.64	16.36	12 - 20
0.075	75	750.0	92.94	7.06	4 - 10
Pan	57.0				
Total	807.0				

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DETERMINATION OF RATE OF SPREAD TACK COAT

TEJUS CONSULTANTS

Name of Work :	Improvements to Drains of Pampa Extension in Ward No 07 Byatarayanapura
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant :	M/s Tejus Consultants
Contractor :	Benaka Developers & Project Pvt.Ltd.
Date of Testing :	25.04.2019
Type of Mix :	Tack coat
Sample I/D :	1

Determination	Unit	Test No		
		1	2	3
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.765	0.746	0.752
Final weight of plate after application of tack Coat (c)	Kg	0.788	0.769	0.775
Weight of tack Coat (d=c-b)	Kg	0.023	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.250	0.256	0.251
Average	Kg/sq.m	0.252		
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**		

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BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

Name of Work :	Improvements to Drains of Pampa Extension in Ward No 07 Byatarayanapura
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant :	M/s Tejus Consultants
Contractor :	Benaka Developers & Project Pvt.Ltd.
Date of Testing :	26.04.2019
Type of Mix :	BC
Sample I/D :	BC1

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	870	835
2. Weight of Mixture after extraction, g	825	792
3. Weight of Bitumen	45	43
4. Weight of filter paper before extraction, g	2.00	2.00
5. Weight of filter paper after extraction, g	4.10	4.10
6. Weight of fines, g	2.10	2.10
7. Weight of Bitumen & fines	47.10	45.10
8. Bitumen content in %	5.41	5.40
9. Average Bitumen content in %	**5.41**	
10. Minimum Bitumen content in %	**5.40**	

GRADATION FOR BC AFTER EXTRACTION
(As per MORT&H 500-18,Grading-2)

Sample Location:	At site	Date of Sampling:	26.04.2019
Type of material & Purpose:	**BC**	Date of testing:	26.04.2019
		Oven Dry Wt.(gms):	825.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	85	85.0	10.30	89.70	79 - 100
9.50	115	200.0	24.24	75.76	71 - 95
4.75	119	319.0	38.67	61.33	53 - 71
2.360	124	443.0	53.70	46.30	42 - 58
1.180	80	523.0	63.39	36.61	34 - 48
0.600	60	583.0	70.67	29.33	26 - 38
0.300	76	659.0	79.88	20.12	18 - 28
0.150	51	710.0	86.06	13.94	12 - 20
0.075	40	750.0	90.91	9.09	4 - 10
Pan	75.0				
Total	825.0				

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Authorised Signatory

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

DETERMINATION OF RATE OF SPREAD TACK COAT

TEJUS CONSULTANTS

Name of Work :	Improvements to Drains of Pampa Extension in Ward No 07 Byatarayanapura
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant :	M/s Tejus Consultants
Contractor :	Benaka Developers & Project Pvt.Ltd.
Date of Testing :	26.04.2019
Type of Mix :	Tack coat
Sample I/D :	1

Determination	Unit	Test No		
		1	2	3
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.784	0.785	0.752
Final weight of plate after application of tack Coat (c)	Kg	0.807	0.808	0.775
Weight of tack Coat (d=c-b)	Kg	0.023	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.250	0.256	0.251
Average	Kg/sq.m	0.252		
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**		

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory/Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

TEJUS CONSULTANTS

Authorised Signatory

Assistant Executive Engineer
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